

**To:** Hoffmann, Michael[Hoffmann.Michael@epa.gov]  
**Cc:** Atkinson, Cheryl[Atkinson.Cheryl@epa.gov]  
**From:** Essenthier, Leo  
**Sent:** Wed 9/14/2016 8:51:32 PM  
**Subject:** FW: From Programmatic Goals to Criteria for Phytoplankton Chlorophyll a  
**MAIL\_RECEIVED:** Wed 9/14/2016 8:51:00 PM  
[ICP16-1 Buchanan.pdf](#)

Mike, FYI, the attached document is the report that the 106 grant funded.

*Leo Essenthier*

*Water Protection Division*

*Office of State & Watershed Partnerships (3WP10)*

*US EPA, Region 3*

*1650 Arch Street*

*Philadelphia, PA 19103*

*215-814-5732*

**From:** Claire Buchanan [mailto:cbuchan@icprb.org]  
**Sent:** Friday, February 26, 2016 3:56 PM  
**To:** Paul Bukaveckas <pabukaveckas@vcu.edu>  
**Cc:** Schlegel, Anne (DEQ) <Anne.Schlegel@deq.virginia.gov>; Robertson, Tish (DEQ) <Tish.Robertson@deq.virginia.gov>; Kennedy, John (DEQ) <John.Kennedy@deq.virginia.gov>  
**Subject:** Fwd: From Programmatic Goals to Criteria for Phytoplankton Chlorophyll a

Paul,

Attached is the report I have submitted to EPA3 as a deliverable for ICPRB's CWA Section 106 grant. I've made it clear that it is not a final report from the SAP, nor does it necessarily reflect the opinions of other SAP members. The report is really intended to summarize various chlorophyll analyses and findings gained on and off by myself and others during the past 15 years. I believe it augments the SAP report and will provide the larger Chesapeake Bay perspective from which to consider the James River's current chl a criteria. Let me know if you have any questions.

Sincerely,

Claire

----- Forwarded message -----

From: **Claire Buchanan** <[cbuchan@icprb.org](mailto:cbuchan@icprb.org)>

Date: Fri, Feb 26, 2016 at 3:40 PM

Subject: From Programmatic Goals to Criteria for Phytoplankton Chlorophyll a

To: "Essenthier, Leo" <[Essenthier.Leo@epa.gov](mailto:Essenthier.Leo@epa.gov)>

Cc: William Richardson <[Richardson.William@epa.gov](mailto:Richardson.William@epa.gov)>, "Hoffmann, Michael" <[Hoffmann.Michael@epa.gov](mailto:Hoffmann.Michael@epa.gov)>, Peter Tango <[ptango@chesapeakebay.net](mailto:ptango@chesapeakebay.net)>, Carlton Haywood <[Chaywood@icprb.org](mailto:Chaywood@icprb.org)>

Hello Leo,

I spent a lot more time than expected participating in the Scientific Advisory Panel (SAP) of the James River Chlorophyll Criteria Study. Most of that time was supported by ICPRB's CWA 106 grant. Last May, Mike Hoffman approved adding my participation as a sub-task in our FY15 workplan and the work has extended into this fiscal year.

I was encouraged by VADEQ last year to synthesize the findings of broader, longer term analyses I had done before and during the Study. I ended up writing a 36 page 'white paper' which I have subsequently updated and turned into a full-fledged report. I would like to submit that report (attached) to EPA3 as a deliverable for my participation in the Study. The report shows how science-based numeric chlorophyll criteria that protect 'balance, indigenous, desirable' phytoplankton populations can be developed from CBP narrative programmatic goals. It is not the SAP's final report, but rather a synthesis of some broader Chesapeake Bay findings that have relevance in VADEQ's deliberations. It will be listed as a deliverable in ICPRB's upcoming mid-year progress report to EPA3.

Sincerely,

Claire

Claire Buchanan, PhD  
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